

Report to the IUPAP Council and Commission Chairs; 2005

The **29th International Cosmic Ray Conference (ICRC 2005)**, co-sponsored by the IUPAP and the Tata Institute of Fundamental Research, Mumbai and other Indian organizations was held in Pune, India during August 3-10, 2005 using the facilities of the University of Pune, the National Centre for Radio Astrophysics and the Inter-University Centre for Astronomy and Astrophysics. The ICRC 2005 was attended by 655 participants, including 120 from India. A large number of intending participants cancelled their travel to Pune due to severe flight dislocations caused by the record-breaking rainfall over the Mumbai-Pune region. The Mumbai international airport, the gateway to India used by most of the participants to reach Pune, received 944 mm of rain within 24 hours on July 26, leading to severe flooding and closure of the airport for almost 48 hours. As the recovery was in progress, another 200 mm of rain fell over Mumbai on July 31, causing severe dislocation of air traffic to and from Mumbai again over the next few days. While most of the participants braved through the disturbed conditions to reach Pune, some of them late by as much as a few days, some colleagues could not travel to Pune due to flight cancellations and very adverse and exaggerated reports in the world news media. Among the 655 participants were 83 women physicists, including 3 who presented highlight or rapporteur papers.

Following the new guidelines laid down by C4 at the ICRC 2003 at Tsukuba, Japan, the presenting authors of the 1225 abstracts of contributed papers were able to submit the manuscript of their papers or confirming abstracts up to the deadline of June 30, 2005, just about a month before the conference, for their inclusion in the scientific program of the conference. More importantly, the new procedure allowed the authors to update their papers up to 2 weeks after the conference to submit for inclusion in the Proceedings of the conference, significantly improving their scientific value for the cosmic ray community. The contributed papers presented at the conference in Pune have been published in a set of 9 volumes. Volume 10 of the Proceedings contains the review, highlight and rapporteur papers. The Proceedings are also available online at <http://icrc2005.tifr.res.in/Proceedings>.

During the inaugural ceremony of the ICRC 2005, **Tom Gaisser (USA)** was presented the **O'Ceallaigh Medal**. The **Kanwal and Gaurang Yodh Prize** went to **Michael Hillas (UK)** and **Jim Hinton (UK)** received the **Duggal Award**. Following the ICRC tradition, the **Victor Hess Memorial lecture** was delivered as a public lecture on August 4, 2005, by the well-known and distinguished cosmic ray physicist, **Gaurang Yodh** of the University of California at Irvine. A special '**Einstein**' session, open to the general public, was organized on August 5 to celebrate and commemorate the centenary of the 'Miracle year' of 1905 which saw the presentation of revolutionary ideas by Albert Einstein. The year 2005 was also the 60th year of the founding of the Tata Institute of Fundamental Research at Mumbai by the eminent theoretical cosmic ray and particle physicist, Homi J. Bhabha and a special '**Homi Bhabha**' **public lecture** was given by the very distinguished neutrino physicist, **Alessandro Bettini** of the Universita di Padova and Istituto Nazionale di Fisica Nucleare at Padova, Italy on 'Neutrino Physics and Astrophysics', a subject of great topical interest in astro-particle physics, cosmic rays and cosmology.

The C4 Commission held 3 meetings at Pune on August 2, 6 and 9, 2005. The meetings discussed the progress in the organization of the **30th ICRC** scheduled to be held at Merida in Mexico during July 3-11, 2007. The Polish delegation, consisting of Maria Giller and Wlodek Bednarek, made the presentation for the **31st ICRC 2009** conference proposed to be held at the University of Lodz in Lodz, Poland in July, 2009 and the Commission decided to accept the proposal.

Another international conference co-sponsored in 2005 by the C4 Commission, IUPAP Working group PANAGIC, INFN (Italy), Universidad de Zaragoza, Ministerio de Educacion y Ciencias (Spain) and

Gobierno de Aragon (Spain), was the 9th International Conference on **Topics in Astroparticle and Underground Physics (TAUP 2005)** at the University of Zaragoza (Spain) during 10-14 September, 2005 (<http://www.unizar.es/taup2005>). The proceedings of the conference have been published in Journal of Physics: Conference Series 39 (2006).

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